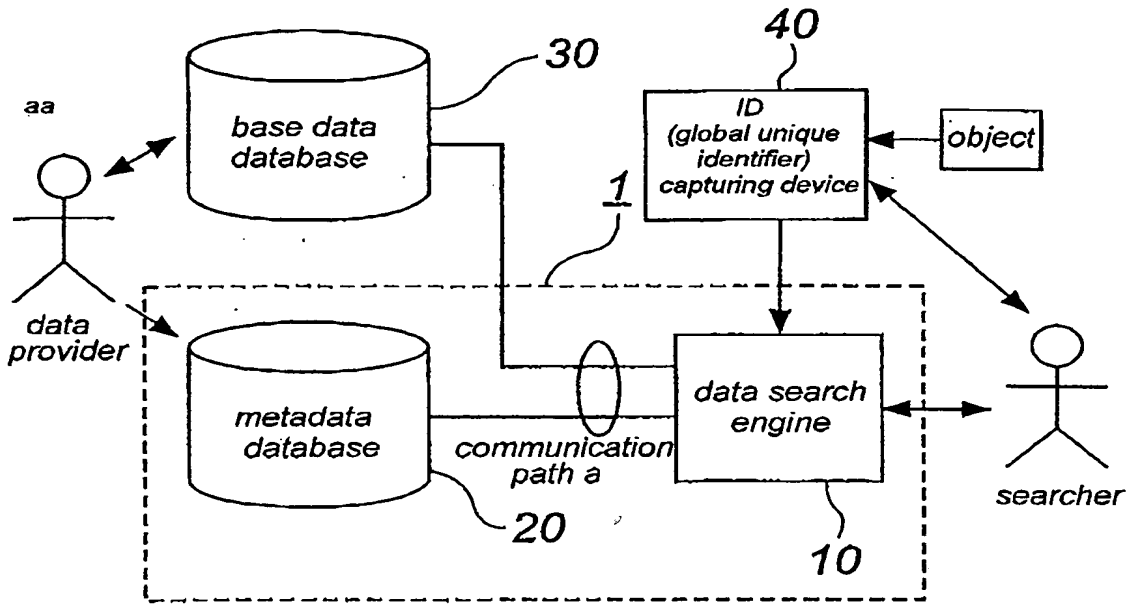


Fig.1

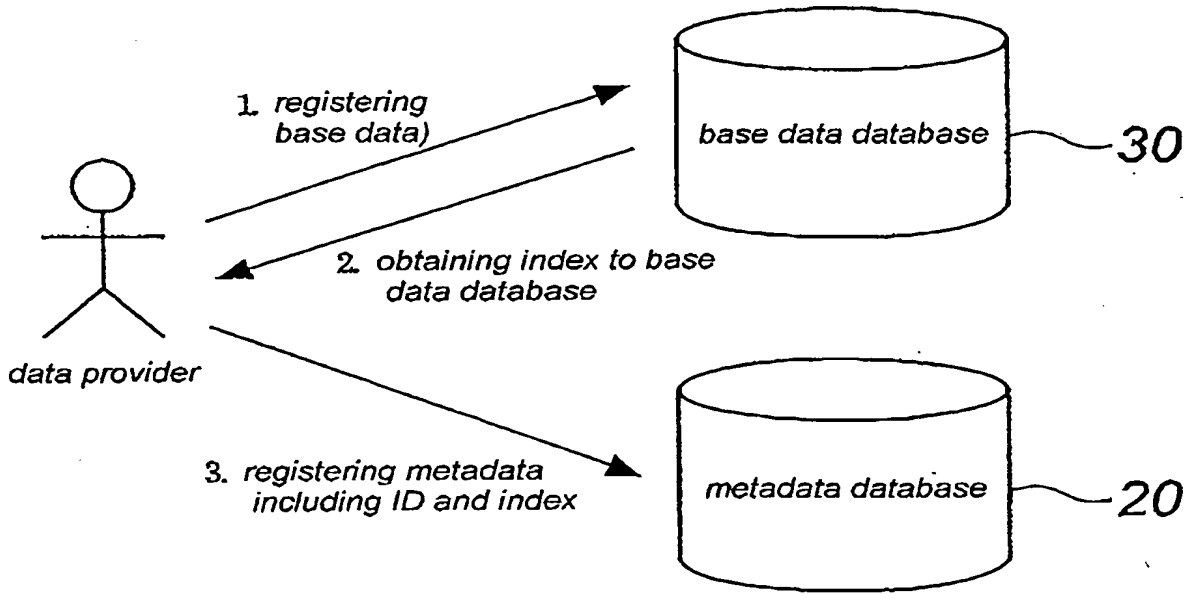


Fig.2 registration of base data and metadata

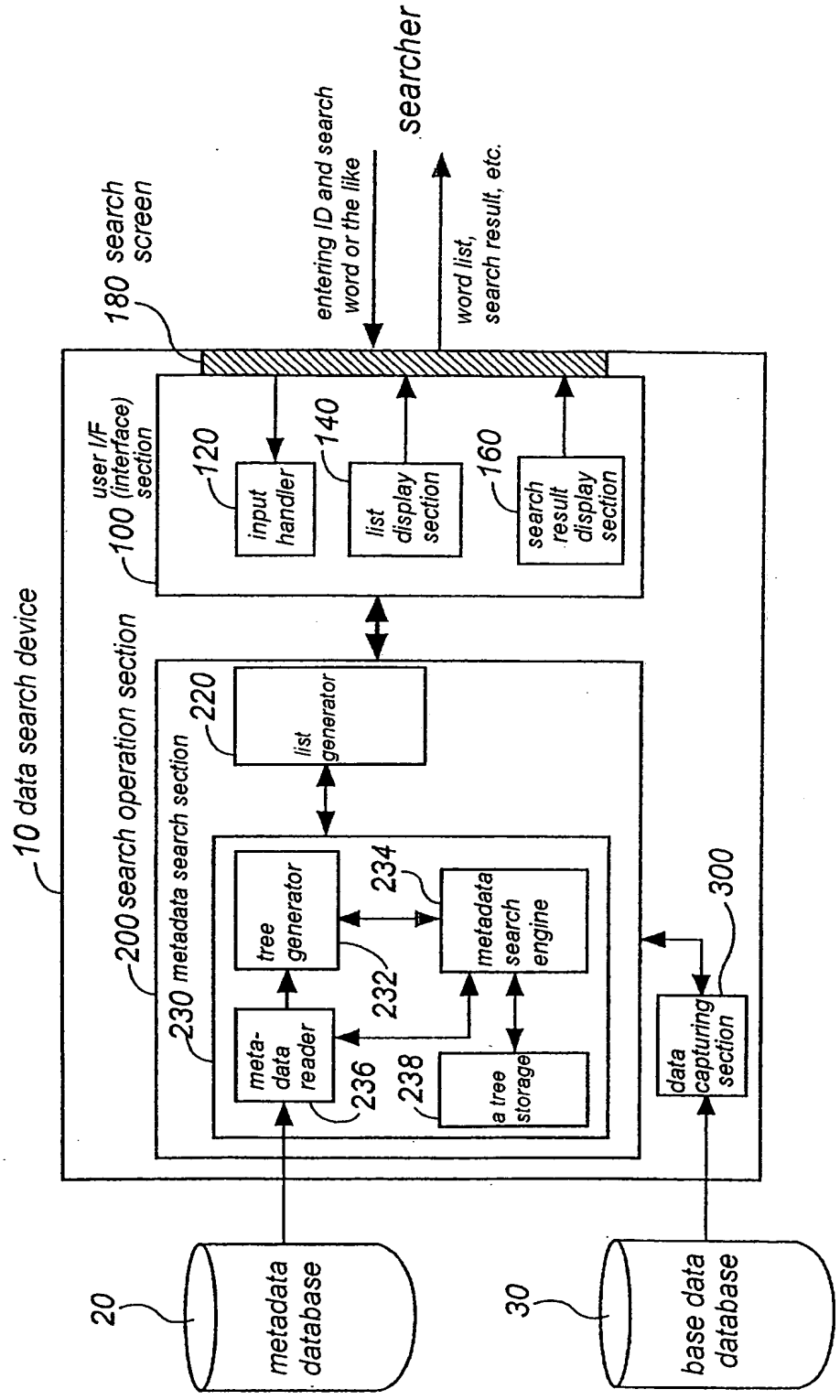
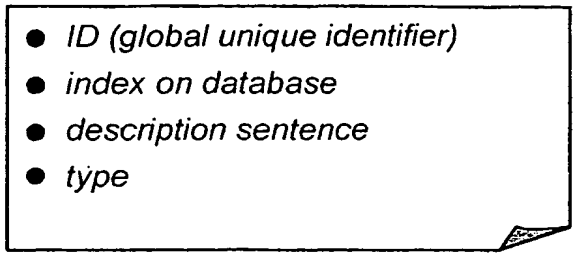

searcher
entering ID and search word or the like
word list, search result, etc.
180 search screen
10 data search device
user I/F (interface) section
100
120
input handler
140
list display section
160
search result display section
200 search operation section
220
list generator
230 metadata search section
tree generator
234
metadata search engine
232
meta-data reader
236
238
a tree storage
300
data capturing section
20
metadata database
30
base data database

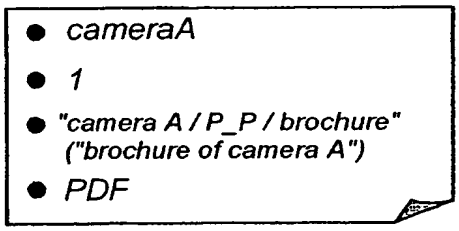
Fig.3



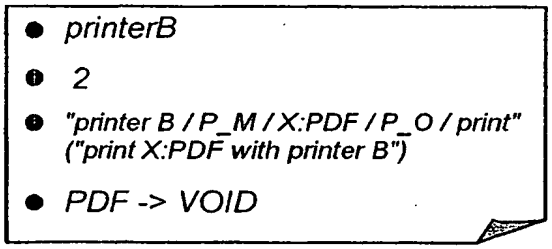
format of metadata

Fig. 4A

metadata for a static data



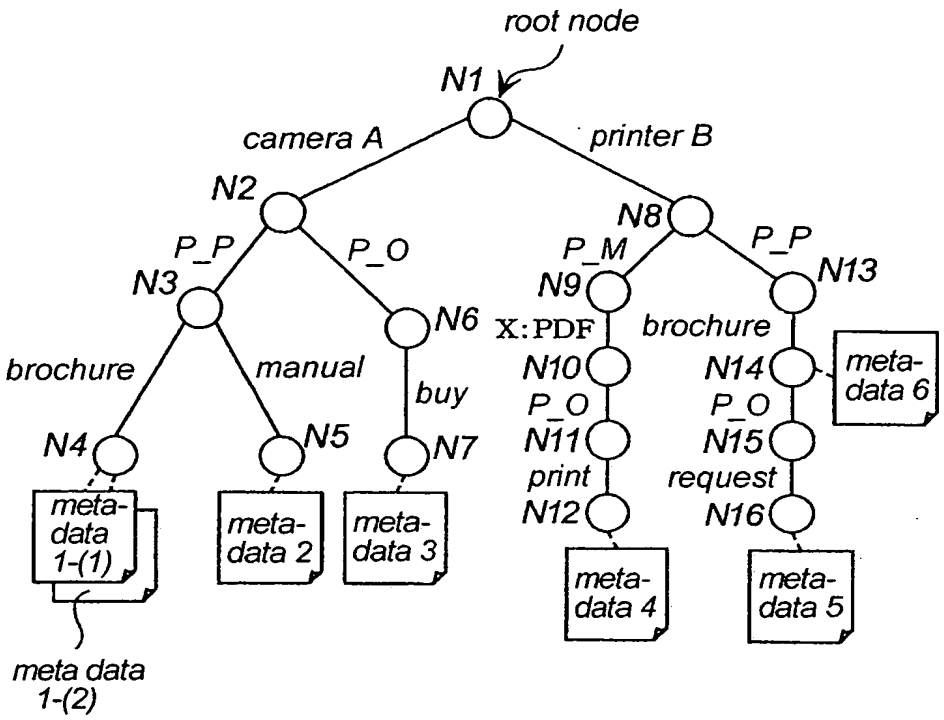
metadata for a program



*When representing a type, X -> Y means that type X is the type of input and type Y is the type of output. Type VOID means that there is no input or output.

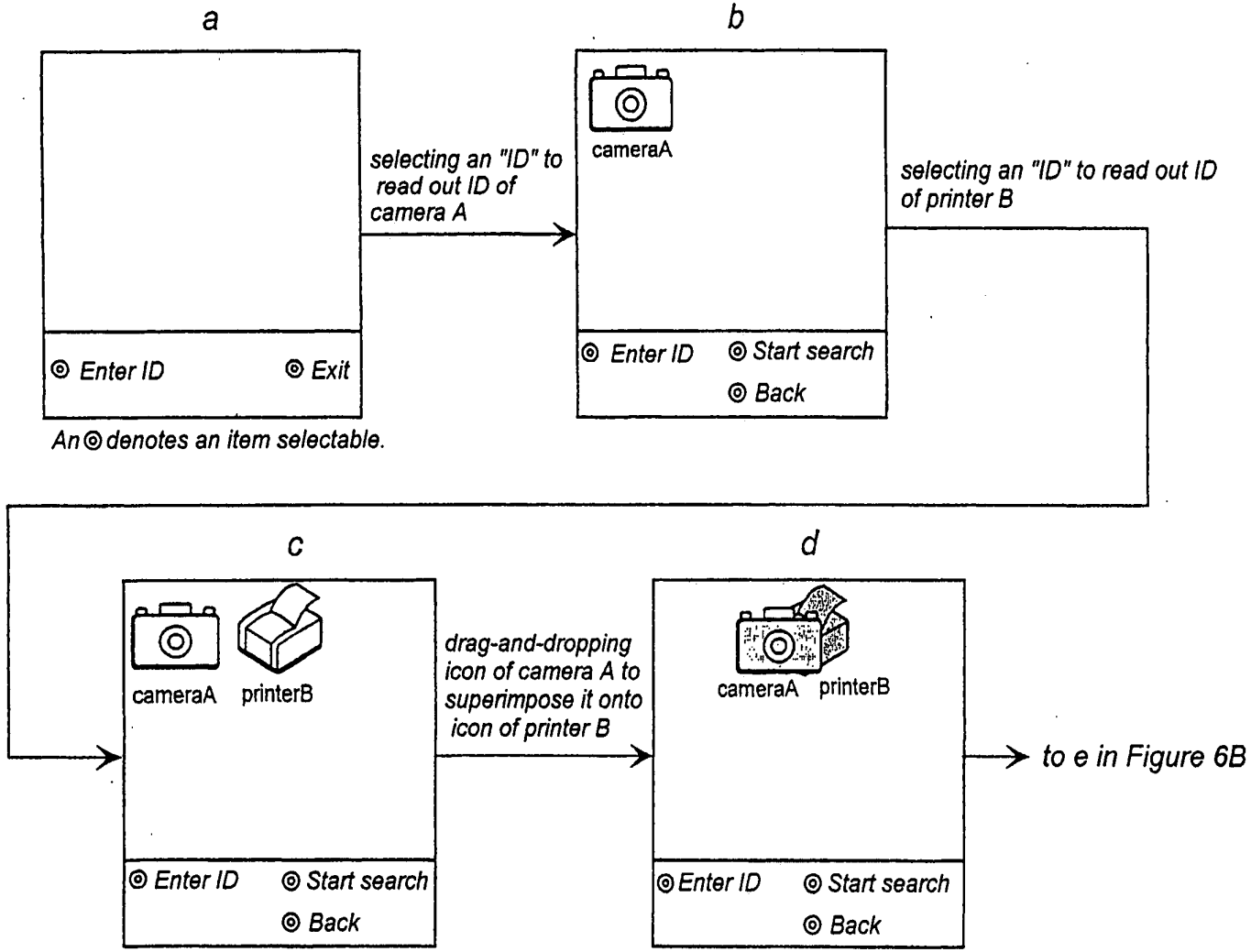
examples of metadata

Fig. 4B



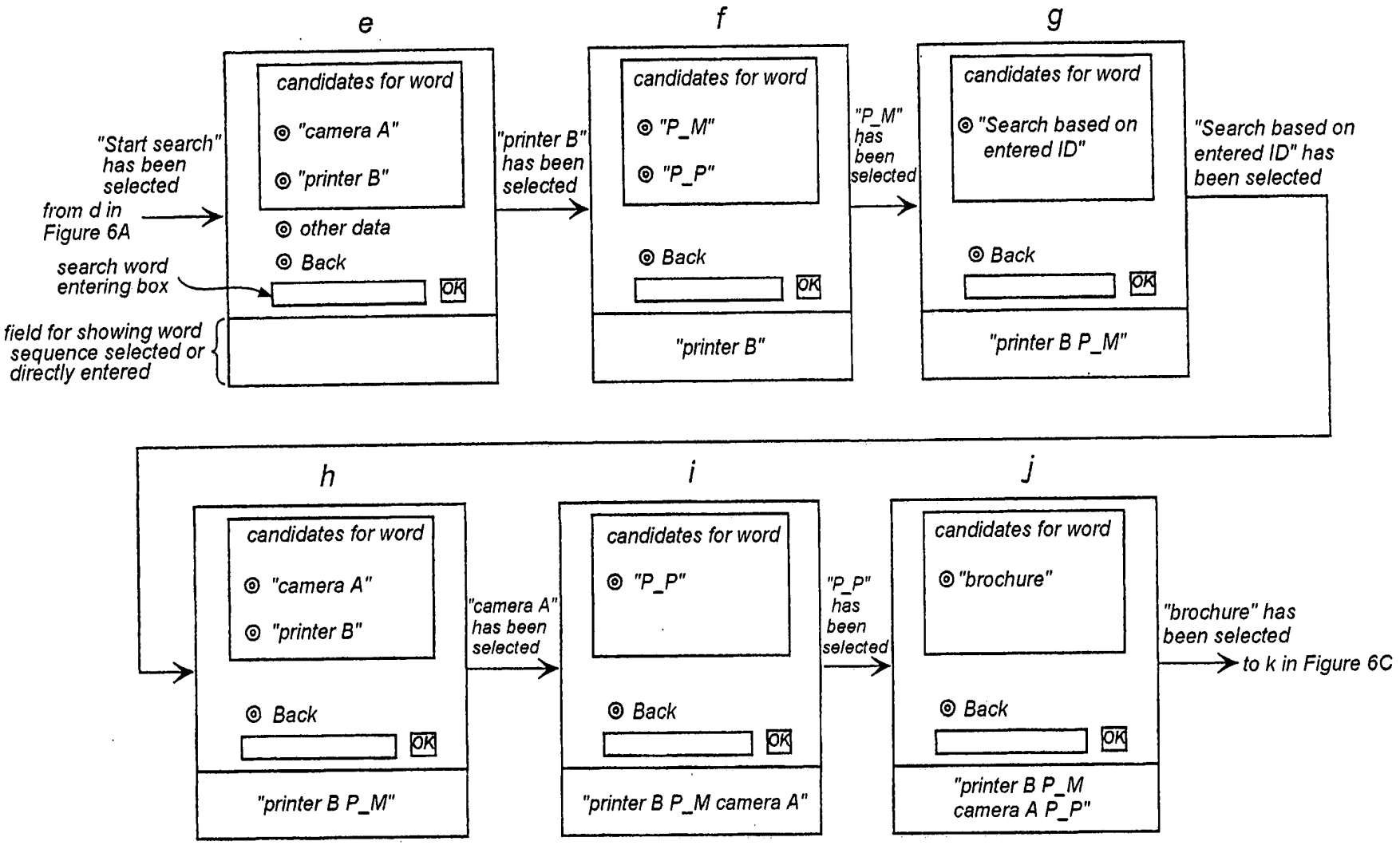
tree expression of metadata set

Fig. 5



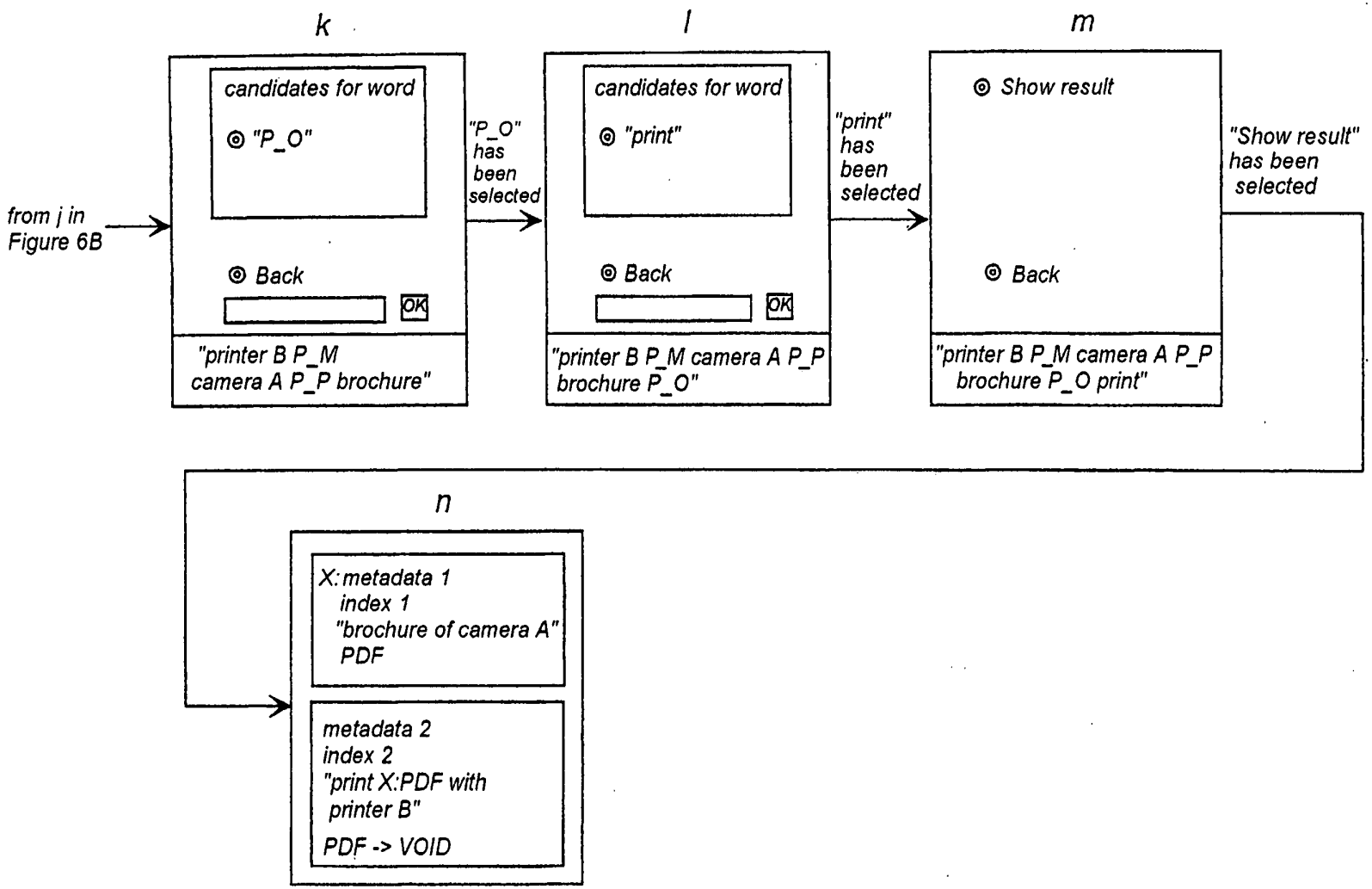
example of display of search screen (continued to Figure 6B)

Fig.6A



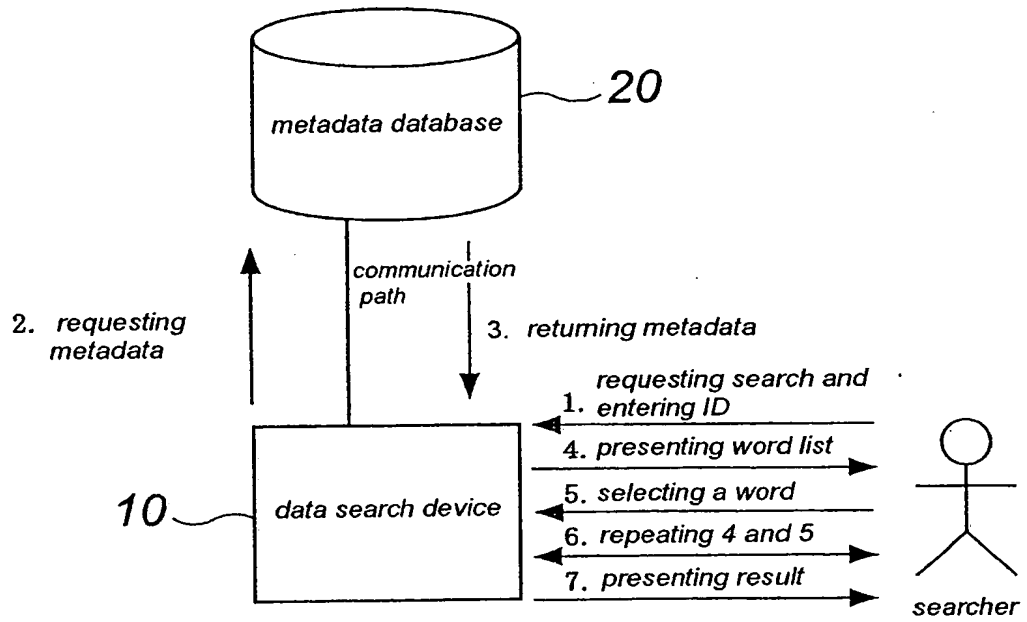
example of display of search screen (continued to Figure 6C)

Fig.6B



example of display of search screen

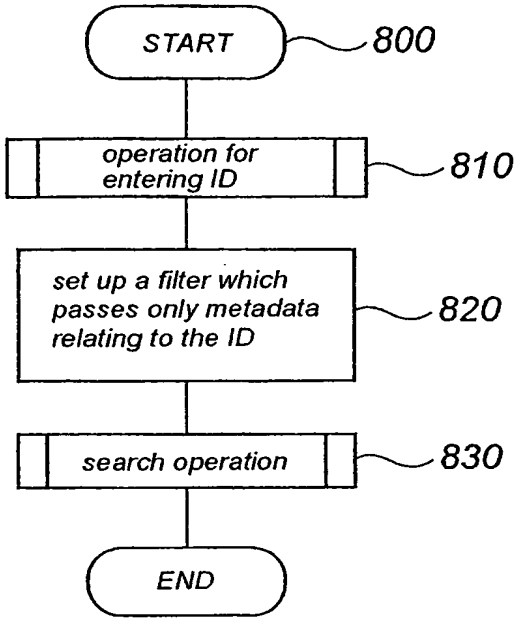
Fig.6C



search flow

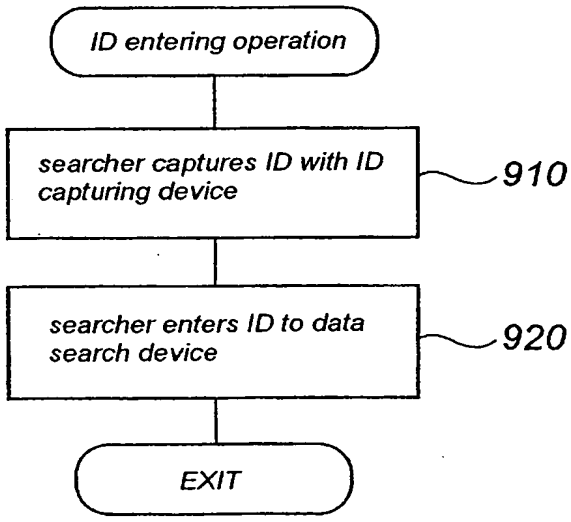
Fig.7

Fig.8

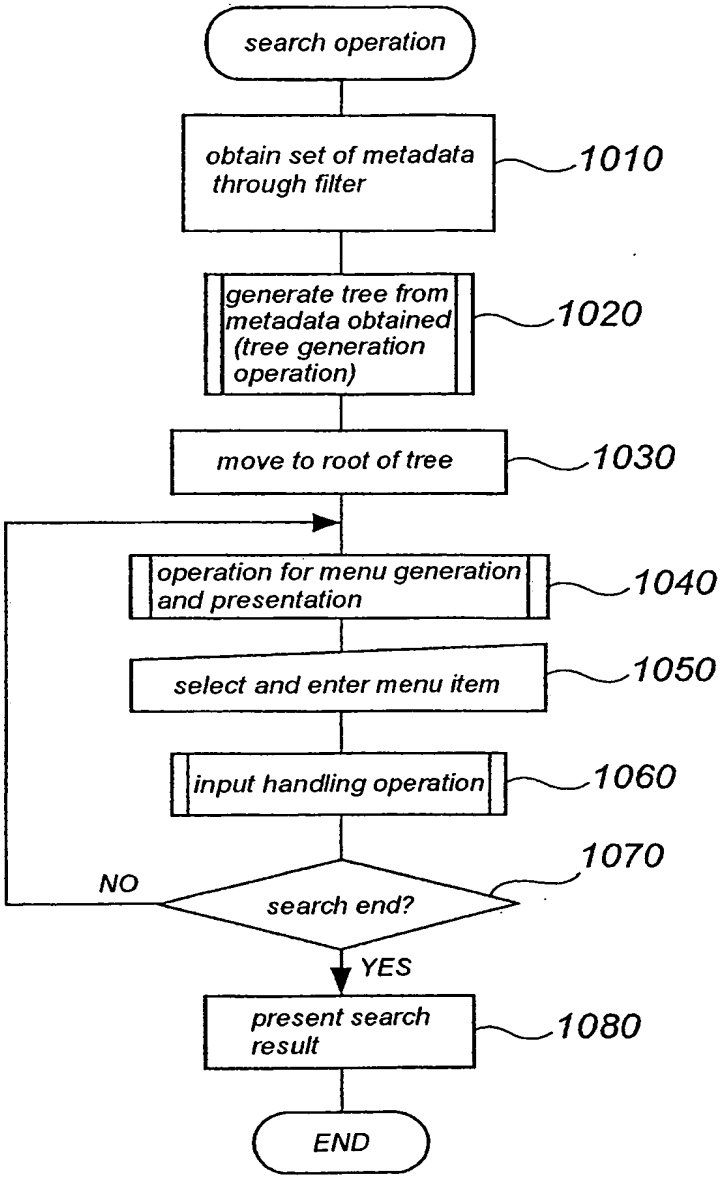


data search

Fig.9

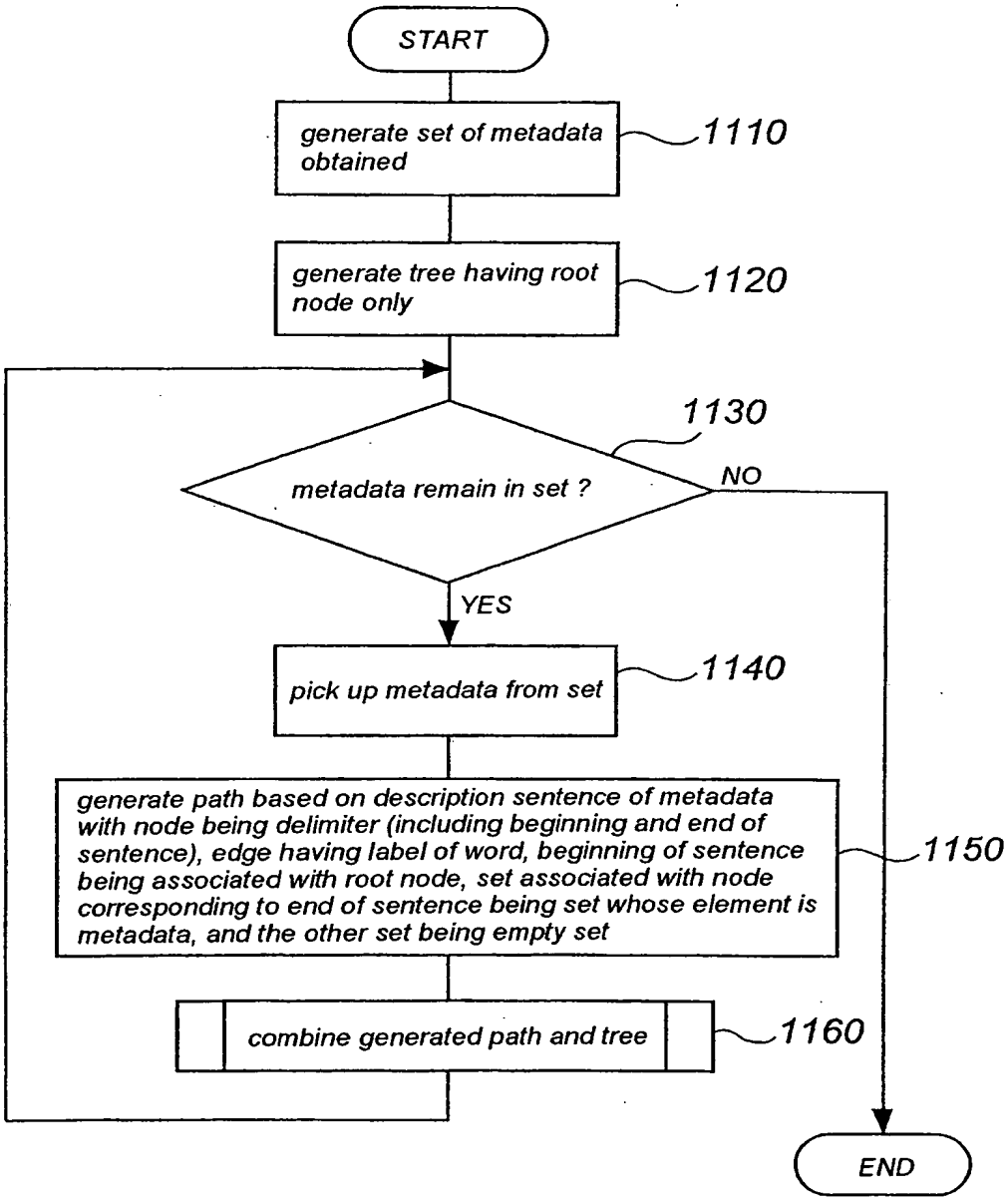


ID entering operation



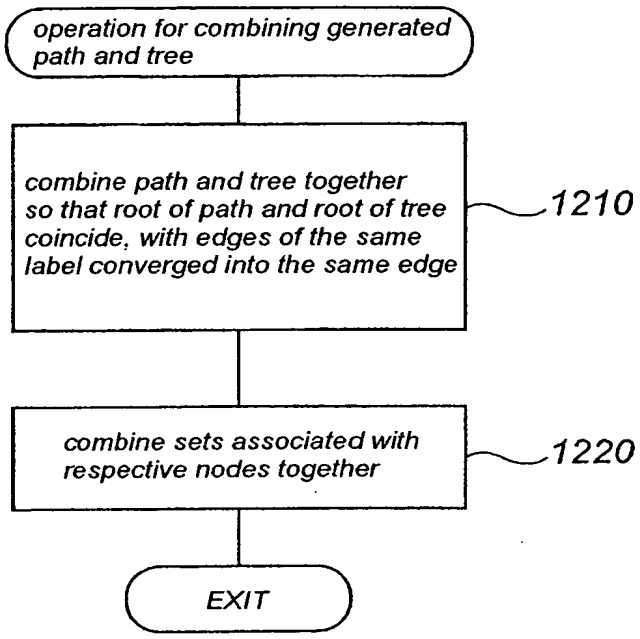
search operation

Fig.10



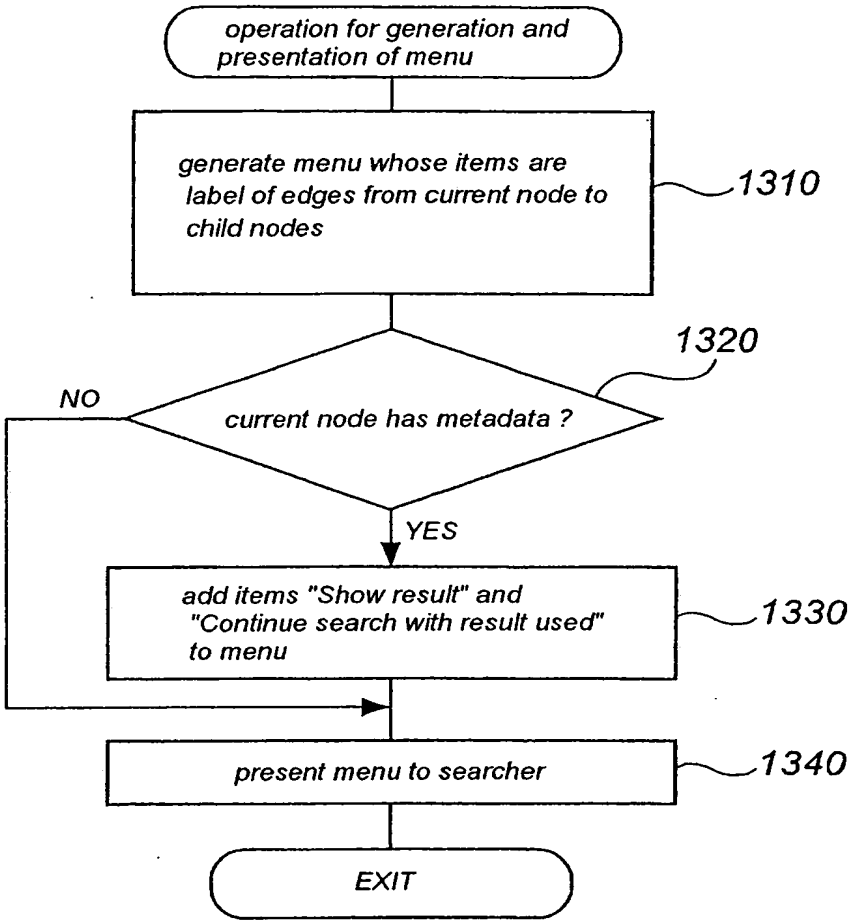
tree generation operation

Fig.11



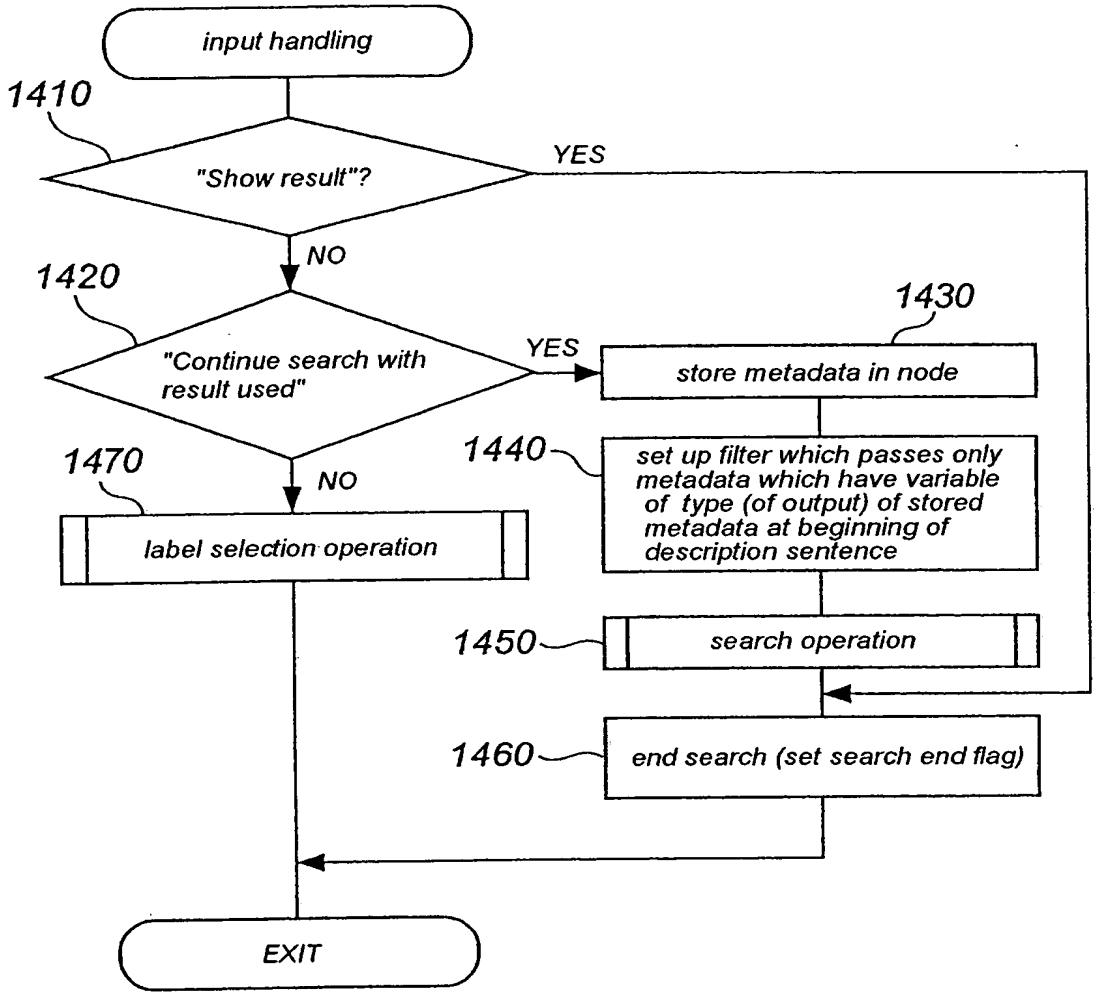
operation for combining generated path and tree

Fig. 12



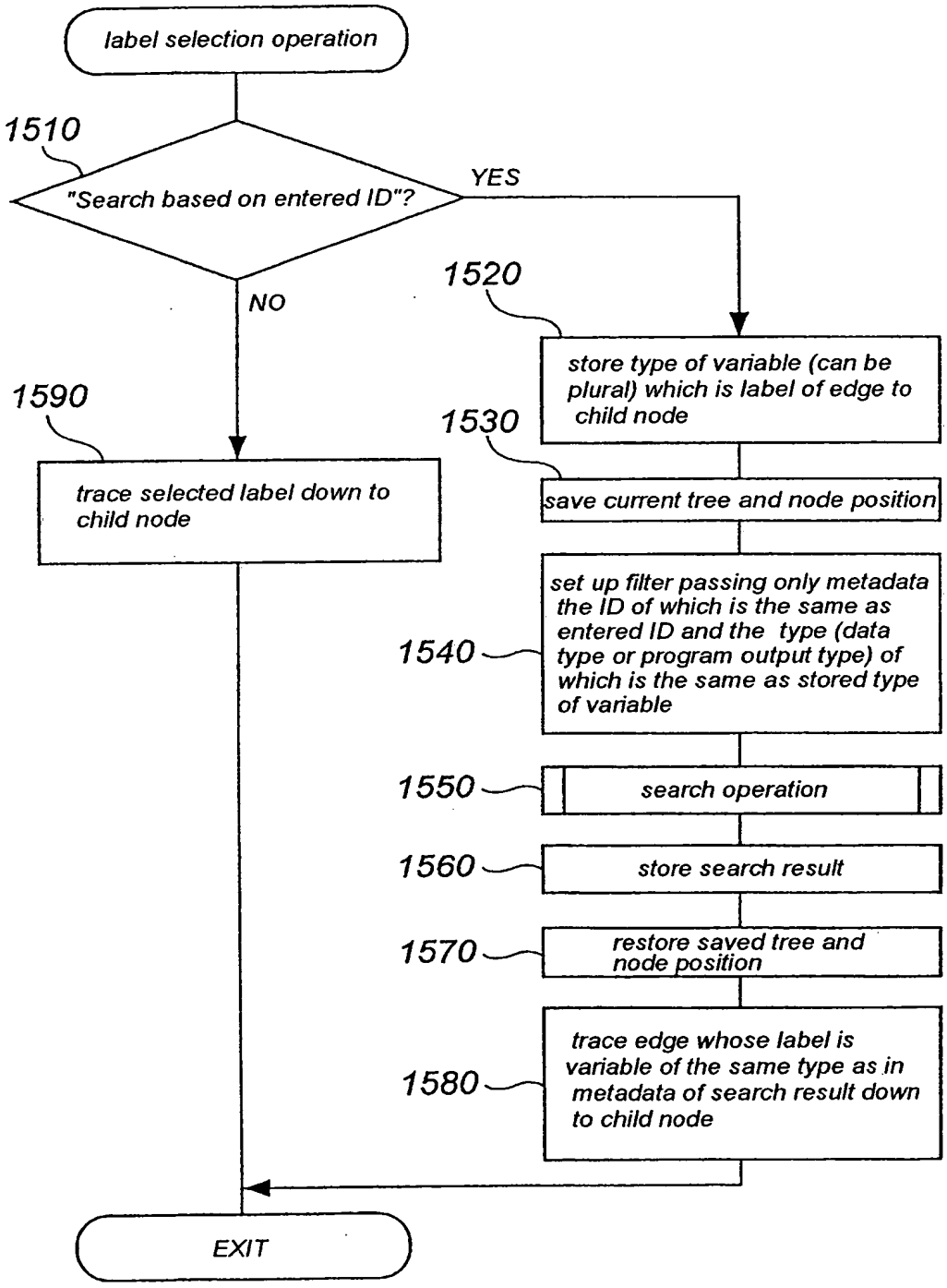
operation for generation and presentation of menu

Fig.13



input handling

Fig.14



label selection operation

Fig. 15